

SEQUENCE LISTING

<110> Japan Science and Technology Agency

<120> Genetic markers that link to genes associated with Fusarium head blight resistance, and use thereof

<130> A181-09PCT

<150> JP 2004-014839

<151> 2004-01-22

<150> JP 2004-270268

<151> 2004-09-16

<160> 56

<170> PatentIn Ver. 2.1

<210> 1

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 1

agagatccct gtcagcttg

20

<210> 2

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 2

tcgtat^{taag} gccgcatagg

20

<210> 3

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 3

gcacgt^{tagcg} ttcaacatca

20

<210> 4

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 4

aactttccc aacccttcc

20

<210> 5

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 5
ccgtgtgtcg tctaggtaaa 20

<210> 6
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 6
caacttttgtt gggacgttagg 20

<210> 7
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 7
gttttcgccta tcactttcc 20

<210> 8

<211> 208

<212> DNA

<213> Hordeum vulgare

<400> 8

gcacgtagcg ttcaacatca catctcatct ttggcaaaag aaatggtcaa tcggcacact 60
ctcagtttt tgccacaaaaa tgtcccatga gaccaccaac atgtgcttcc cgcaatagta 120
gtaaacgaac aaagcaatct agaatgcata gtttggtagc acgaaacagg aaaccatcat 180
gcacataaaaa ctttccccaa ccctttcc 208

<210> 9

<211> 208

<212> DNA

<213> Hordeum vulgare

<400> 9

gcacgtagcg ttcaacatca catctcatct ttggcaaaag aaatggtcaa tcggcacact 60
ctcagtttt tgccacaaaaa tgtcccatga gaccaccaac atgtgcttcc cgcaatagta 120
gtaaacgaac aaagcttatct agaatgcata gtttggtagc acgaaacagg aaaccatcat 180
gcacataaaaa ctttccccaa ccctttcc 208

<210> 10

<211> 335

<212> DNA

<213> Hordeum vulgare

<400> 10

ccgtgtgtcg tcttaggtcaa ccatgacaac aactacgtgt ggtcgtgact ttggcctgct 60
gttgtcacct caccatggat tgtggtctcc atcaaaaagtt atttgtgaga gtttcatctc 120
tgcagatctg gtgggtgact ttgggtggcat gatcataact atggacggag tcttgatccg 180
gagggatgggt tgtgcgccaa cgaaggcac attgcattgtta attgttcnga tcacggaaaga 240

gtgatggcga aaacacatga gtgacttcaa tggtggtgtt acttcagttatccgatataaa 300
gcttcanggc aaaaggctac gtcccccaccaaa agttg 335

<210> 11
<211> 335
<212> DNA
<213> *Hordeum vulgare*

<400> 11
ccgtgtgtcg tctaggtcaa ccatgacaac aactacgtgt ggtcgtgact ttggcctgct 60
gttgtcacct caccatggat tgtggtctcc atcaaaaagtt atttgtgaga gtttcatctc 120
tgcagatctg gtgggtgact ttgggtggcat gatcataact atggacggag tcttgatccg 180
gagggatggt tgtgcggcaa cgaagggtcac attgcatgta attgttcnnga tcacggaaga 240
gtgatggcga aaacacatga gtgacttcaa tggtggtgtt acttcagttatccgatataaa 300
gcttcanggc aaaaggctac gtcccccaccaaa agttg 335

<210> 12
<211> 254
<212> DNA
<213> *Hordeum vulgare*

<400> 12
ccgtgtgtcg tctaggtcaa ccatgacaac aactacgtgt ggtcgtgact ttggcctgct 60
gttgtcacct caccatggat tgtggtctcc atcaaaaagtt atttgtgaga gtttcatctc 120
tgcagatctg gtgggtgact ttgggtggcat gatcataact atggacggag tcttgatccg 180
gagggatggt tgtgcgccaa cgaagggtcac attgcatgta attgttcnnga tcacggaaga 240
gtgatggcga aaac 254

<210> 13
<211> .254
<212> DNA
<213> *Hordeum vulgare*

<400> 13

ccgtgtgtcg tctaggtcaa ccatgacaac aactacgtgt ggtcgtgact ttggcctgct 60
gttgcacct caccatggat tgtggtctcc atcaaaagtt atttgtgaga gtttcatctc 120
tgcagatctg gtgggtgact ttgggtggcat gatcataact atggacggag tcttgatccg 180
gagggatgggt tgtgcggcaa cgaaggcac attgcatgta attgttcnga tcacggaaga 240
gtgatggcga aaac 254

<210> 14

<211> 17

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 14

ctcgttagact gcgttacc 17

<210> 15

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 15

aattggtagc cagtctac 18

<210> 16

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 16

gacgatgagt cctgag

16

<210> 17

<211> 14

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 17

tactcaggac tcat

14

<210> 18

<211> 16

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 18

gactgcgtac caattc

16

<210> 19
<211> 16
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 19
gatgagtcct gagtaa 16

<210> 20
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 20
gactgcgtac caattcccg 19

<210> 21
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 21

gatgagtccct gagtaaacg

19

<210> 22

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> .22

ccgttggaca ggaaggag

18

<210> .23

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> .23

cccatagacc ggactgtt

18

<210> 24

<211> .21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 24

aattagcgag aacaaaatca c

21

<210> 25

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 25

agataaacgat gcaccacc

18

<210> 26

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 26

gacacaggac ctgaaggcaca

20

<210> 27

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 27

cggcaggctc tactatgagg

20

<210> 28

<211> 20

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 28

cagcatatcc atctgatctg

20

<210> .29

<211> .21

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> .29

cacccttatt tattgcctta a

21

<210> 30
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 30
tccatgttcc cagctacaca .20

<210> 31
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 31
aggaacacat tggttctggc .20

<210> 32
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 32

gatgagtcct gagtaaattc 19

<210> 33
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 33
gactgcgtac caattctga 19

<210> 34
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 34
gatgagtcct gagtaaattc 19

<210> 35
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially

Synthesized Primer Sequence

<400> 35

gactgcgtac caattcgcg

19

<210> 36

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 36

gatgagtcct gagtaaacg

19

<210> 37

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 37

gactgcgtac caattccgt

19

<210> 38

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 38

gtcgggctcc attgctct

18

<210> 39

<211> 18

<212> DNA

<213> Artificial Sequence

220

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 39

ccggtaacca gtgacgac

18

<210> 40

<211>.20

<212> DNA

<213> Artificial Sequence

220

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 40

atacatgcat gccattgtgg

20

<210> 41

<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 41
atccatccac tgtttgaggg 20

<210> 42
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 42
tgctctgcat ttcattcagc 20

<210> 43
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 43
cagcgttaca ggcattctca 20

<210> 44
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 44
gatgagtcct gagtaaata 19

<210> 45
<211> 19
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 45
gactgcgtac caattcagg 19

<210> 46
<211> 18
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 46

ccggtcggtg cagaagag

18

<210> 47

<211> 24

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Artificially
Synthesized Primer Sequence

<400> 47

aatgaaagc taaatggcg atat

24

<210> 48

<211> 251

<212> DNA

<213> Hordeum vulgare

<220>

<221> n

<222> (7)

<220>

<221> n

<222> (17)

<220>

<221> n

<222> (29)

<220>

<221> n

<222> (47)

<220>

<221> n

<222> (98)

<400> 48

ttacagntat aataggnggt ttcagttgnt agtgcttta caacagnaat agaagggtt 60
cactgtgaat ccacaacata tcaagtggta cacatagnac catgtcattc atacatgcat 120
gccattgtgg ggagaagcac aggtgggtgg gaaattccct ctcccaaag agaagatgtg 180
gctatgcctt gagcatccgc aggttagtctt cgattatgga catggctgac gagcggtacc 240
cagagccgaa a .251

<210> 49

<211> .251

<212> DNA

<213> *Hordeum vulgare*

<220>

<221> n

<222> (35)

<220>

<221> n

<222> (37)

<400> 49

tgttgggaca tggagctgca gctcttgac aaccnanctc ctctgctctg catttcattc 60
agcaaataaa ctcatggct tgctgctgct tccctaaaac ctaaagacta gcaactactg 120
gtacacgcaa cctcctcctc catctctagc tatgaacaag gtaaaatttac ccacctttc 180
tatcacaaaaa aaaatatgaa caccaagccg aatcacgact gagaatttta cacaatgata 240
atcgctcagc c .251

<210> 50
<211> 249
<212> DNA
<213> Hordeum vulgare

<220>
<221> n
<222> (19)

<400> 50
acaagcgcac attttaatnc ttatttatcgc tcactcactc gaagagttgc gtattaaaat 60
tacactaaaa acctaaacagc ttagcttagct aagctcctcc tcaaccatca acatggaaac 120
aatccatgtt cccagctaca catatgatac atacatcagc taagctcttc tagcaaccca 180
accaatgacc ctggttggat tcagaagttg ctcttgctcg tcgaaggctt cgacctcttg 240
ctgttgagc 249

<210> 51
<211> .21
<212> DNA
<213> Hordeum vulgare

<400> 51
gaaaacatgc aggtgaactc a .21

<210> 52
<211> 21
<212> DNA
<213> Hordeum vulgare

<400> 52
gaaaacatgc cggtgaactc a .21

<210> 53

<211> 21

<212> DNA

<213> Hordeum vulgare

<400> 53

gcgggcgcgg cgggtcgagc g

21

<210> 54

<211> 21

<212> DNA

<213> Hordeum vulgare

<400> 54

gcgggcgcgg tgggtcgagc g

21

<210> 55

<211> 519

<212> DNA

<213> Hordeum vulgare

<400> 55

agcaactccag tgttggggca ttgtcgactt cagtgcacgg ccatctcaca acaaggcagca 60
accgcttgat gggAACATGT ttattaaacta tatcgtcagg aagtgcgtgt accttggcat 120
tcagatgaac aagacagcat gttttgtgca tctatcagaa atgtcagtgc tatcggatcc 180
acaccaactg cacgaggagc tgaaccaaAGC aaAGCAGGCT gggTGAAGA agaaccagaa 240
gctgcaactc ctcttctgcc cgatgtctga gcagcatcat gggTACAAGA cactgaagct 300
gatctgcgag acgcagctgg ggatccaaAC ccagtgttc ttgagccacc tcgcaaacaa 360
aacCCAGGGC caggaccagt acatgtccaa tcttgctctc aagatcaacg gcaagctcgg 420
ggcatacAAC acccagctcc aggacaagct cccactggac aacggtgttc cttacatgtt 480
cataggcgca gacgtgaacc accccatcacc tggaaatgg 519

<210> 56

<211> 538

<212> DNA

<213> Hordeum vulgare

<220>

<221> n

<222> (41)

<400> 56

agtgcgtcg tggcattt catatcatca gactggcaag nggccaggca accacataac 60
tatagtataa aagacacaga cctgaagcac acgcacaatg acagaaccag caatacgttc 120
caagttcaaa gttcagacca tacgaaacag ttccggatgtc atgttctacc ggaccaagtt 180
cagaccatat gaagcagtct gtatatatgt tctaccggac caagttcaga ccatatgaag 240
cagtctgtat atatgttcta ccggaccaag ttccagaccat atgaaggcgt ctgtatatat 300
gttctaccgg accaagacgc taagcggcac cggtgagaag ccggcgtcag atgaagaaca 360
tgttgcctg aagatccacg tgcagcgtcg ggaagttgct gaagtcacaa gccccggcg 420
ctgtggagga ggccgacgac gacgagctgc gcacctgggg ctgggacgcc agcatgccct 480
catagtagag cctggccgg tacggcccca ggtcgccgta gtagacgggc gtcggccag 538